

NAME OF STUDY	REFERENCE NO.	NICOTINE	RSP	ADDITIONAL INFORMATION
1. Trailmobile Inc., Charleston, Illinois	HETA-87-350-2084			"Authors recommend protecting workers from exposures, preventing all skin contact with paint and eliminating eating, drinking, and smoking in all work areas."
2. Southwest Power Station, City Utilities, Springfield, Missouri	HETA-82-093-1453		Sulfur dioxide 1.3/mg/m ³	"I.D. of 3 workers with chronic bronchitis each of whom smoked cigarettes." Health hazard was sulfur-dioxide and noise.
3. United States Department of Education, Chicago, Illinois	HETA-89-128-L2085			"problem with the control of airborne particulates in the smoking areas of the Department Recommend: 1. smoking lounges, 2. check ventilation system."
4. USA Today/Gannett Co., Inc. Rosslyn, Virginia	HETA-89-069-2036			Risk of miscarriage was elevated in women who smoked. Cause of high number of miscarriages was not identified.
5. Scott Paper Company, Chester, Pennsylvania	HETA-89-352-L2037		70.0-7600.0 $\mu\text{g}/\text{m}^3$ Dust	No mention of ETS or smoking.
6. Eagle Convex Glass Co., Clarksburg, W. Virginia	HETA-89-137-2005		0.08-0.20 mg/m ³ Dust	No mention of ETS or smoking.
7. Todd Meadows Gin, St. Clair, Alabama	HETA-82-091-1176		0.4-5.8 ppm - insecticide 0.3 ppm - floor dust	"Ginner has a combination of bronchitis symptoms related to heavy smoking and an atypical byssinosis-like syndrome related to cotton dust exposure."
8. Mid-South Terminals Corporation Memphis, Tennessee	HETA-80-206-1164		0.09-0.18 mg/m ³ Pitch dust.	No mention of ETS or smoking.
9. Public Services Company of Colorado Pueblo, Colorado	HETA-81-338-1070		>10 mg/m ³ - total dust particulate	"One worker had a significant loss of pulmonary function." No ETS or smoking.

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10. Ideal Cement, LaPorte, Colorado	HETA-82-262-1262		6.25 mg/m ³ - sulfur-dioxide	Hazard from overexposure to sulfur dioxide. No ETS or smoking.
11. Olin (Allied) Chemical Company, Moundsville, W. Virginia	HETA-81-295-1155		TDA levels 687 mg/m ³ tolune-diamine	Report of reproductive problems. No mention of ETS or smoking except as part of a medical history.
12. Federal Office Building Cincinnati, Ohio	HETA-81-307-893		0.2 mg/m ³ - branched alkanes.	All ozone, CO, CO ₂ and formaldehyde concentrations were below limits of detection. Recommend: (1) Improve air circulation; (2) No smoking by workers while in the computer room.
13. Social Security District Office Philadelphia, Pennsylvania	HETA-86-356-1930			"Complaints perhaps arising from cigarette smoke, kerosene and gasoline fumes." CO ₂ levels - 800 to 1000 ppm CO levels - negligible Ventilation system needed to be adjusted.
14. Office of Employment Security Beaver Falls, Pennsylvania	HETA-88-274-1924			"air contaminants in the building included dry toner type photocopier, fiberglass insulation, tobacco smoking. . . " No CO or NO ₂ were detected. Recommend: improve ventilation (HVAC).
15. General Electric Carboly Systems Detroit, Michigan	HETA-85-295-1907		Airborne cobalt 24.6 $\mu\text{g}/\text{m}^3$	Recommendations: (1) Use single disposable respirators (2) Smoking eating and drinking be prohibited when toxic materials are present.
16. CF and I Steel Corporation Pueblo, Colorado	HETA-88-127-1903		1.5 mg/m ³ - dust 0.5-0.2 mg/m ³ - silica	No mention of smoking or ETS. Health hazard from exposure to arsenic cadmium lead and silica.
17. Park County Courthouse Fairplay, Colorado	HETA-87-404-1893		Formaldehyde 0.03-0.06 ppm	"The building was made a no smoking area. Recommendations (1) increase humidity to 40%.
18. Barmet Aluminum Corporation Livermore, Kentucky	HETA-87-321-1880		Exceeds NIOSH and OSHA exposure limits.	No mention of ETS or smoking.

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19. Ohio Bureau of Employment Services Xenia, Ohio	HETA-81-044-866			Used smoke tube to check air movement. No toxic substances were found. Poor ventilation. Recommendations (1) service air conditioner; (2) check duct work; (3) smoking discouraged in office and waiting area.
20. Swissvale Auto Surplus Parts, Inc. Pittsburgh, Pennsylvania	HETA-82-246-1275			Scrapyard had PCB's poorly stored. PCB isomers from 0.2-25 ppm. Surface and soil contamination. Recommendations: (1) Eating, drinking and smoking in scrapyard should be discouraged.
21. GTE/Velenite Corporation, Westminster, S. Carolina	HETA-85-064-1844			Dust generated from grinding of tungsten-carbide. Smoking status of employees was established. Recommendations: (1) improved hygiene; (2) Change to safer cutting fluid.
22. New Jersey Education Association Trenton, New Jersey	HETA-86-486-1799			Reports of eye irritation, headaches - sore throats. Very little air movement. No detectable CO or formaldehyde. Recommendations: (1) Improve ventilation; (2) Restriction of smoking.
23. HCFA-Meadows East Building Baltimore, Maryland	HETA-86-410-1772			Airborne dust, gas and vapor concentration. Fungal concentration was 75 colony units/m ³ . Symptoms due to "poor ventilation and low level indoor pollutants such as tobacco smoke." Recommendations: (1) Readjust ventilation system; (2) Enforce a no smoking policy.
24. Fruehauf Corporation, Parts Plants, Delphos, Ohio	HETA-85-030-1693		>15 mg/m ³ - iron, aluminum, chromium copper, magnesium, manganese, molybdenum, nickel, lead, tin and vanadium.	"Cigarette smoking was high among welders, but symptoms could not be totally related to that cause." Welding fumes - CO, NO, O ₃ as well as several metals in air samples.

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25. Ruen Transport Corporation Des Moines, Iowa	HETA-85-434-1655			"Co - 3,000 ppm. Large number of employees observed smoking. "Excessive smoking may be responsible for the reported symptoms." Improved ventilation recommended.
26. American Transportation Corporation Conway, Arkansas	HETA-82-025-1413		Total particulates >15 mg/m ³	Total particulates and solvents were measured. Complaints of dermatitis, eye-nose, throat and respiratory. "Smoking around solvents" though not the cause of the problem. Recommendations: (1) Improve hygiene.
27. CF and I Steel Pueblo, Colorado	HETA-84-099-1514			Blood samples for lead and free erythrocyte protoporphyrin. "Smokers had statistically significantly higher blood levels than nonsmokers." Recommendation: (1) No eating, drinking or smoking on job.
28. Kennecott Smelter, Murley New Mexico	HETA-84-038-1513			Environmental arsenic, cadmium, copper, lead, sulfuric acid, SO ₂ , and silica. Death of an employee - lung cancer. Concluded SO ₂ and lead was cause. Recommendation: Stop smoking program.
29. Alhambra Plaza Clifton, New Jersey	HETA-82-294-1458			33% residents complained of headache, eye irritation or sore throat. "Ventilation system did not meet ASHRAE guidelines." Building is a health hazard. Recommend: (1) Modify ventilation; (2) Restrict smoking to areas with adequate air flow.

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30. Boone County Public Administration Building Burlington, Kentucky	HETA-83-035-1317			Air handling system not working efficiently. In areas where smoking, ventilation was inadequate. Levels of CO, CO ₂ , formaldehyde were not measurable. Recommendation: Need to improve ventilation where smoking is allowed.
31. USDA Food and Nutrition Service, Burlington, Massachusetts	HETA-82-313-1221			Complaints of eye and sinus irritation. No detectable contaminants. "More workers on the Food Stamp side were smokers." Insufficient ventilation lead to build up of smoke. Recommendation: (1) Improve flow of fresh air; (2) Restricted smoking area.
32. Bureau of Land Management Cheyenne, Wyoming	HETA-81-153-884		Acetic-acid 3-5 ppm (OSHA = 10 ppm)	"the probable cause of the complaints reported by employees was cigarette smoke concentrated on the fourth floor." Recommendation: (1) Prohibited smoking in work areas.
33. Frontier Airlines Denver, Colorado	HETA-81-281-885		CO=3-35 ppm (OSHA = 50 ppm)	CO came from propane forklift trucks. "Workers should be informed of the additive effects of cigarette smoking and carbon monoxide exposure.

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